

AMENDMENTS

In the Claims:

Please ~~amend~~ Claims 10-16 and 18 in the following manner:

10. (Amended) A cryptographic communication system having a pseudo-random key generator for generating cryptographic keys, said pseudo-random key generator comprising:

B' a pseudo-random number generator;

a timing circuit operatively coupled to said pseudo-random number generator;

a first computer readable storage area operatively coupled to said pseudo-random number generator, said first computer readable storage area containing a plurality of data values, each data value associated with a unique storage address within said first computer readable storage area;

a second computer readable storage area operatively coupled to said first computer readable storage area, said second computer readable storage area containing a plurality of key data values, each key data value associated with a unique storage address within said second computer readable storage area,

wherein the pseudo-random number generator periodically generates a pseudo-random number in accordance with the timing circuit, wherein each generated pseudo-random number is used to look up a unique address in the first computer readable storage area for retrieving the data value associated with the looked up unique address, and wherein the retrieved data value is used to look up a unique address in the second computer readable storage area for retrieving a key value data, said key value data being used to form a cryptographic key.

11. (Twice amended) The cryptographic communication system according to claim 10, further comprising a programmed processor operatively coupled to said first computer readable storage area for generating the data values in accordance with a predetermined algorithm.

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12. (Twice amended) The cryptographic communication system according to claim 11, wherein said programmed processor selectively rearranges the data values in said first computer readable storage area.

13. (Twice amended) The cryptographic communication system according to claim 10, further comprising a programmed processor operatively coupled to said second computer readable storage area for generating the key data values in accordance with a predetermined algorithm.

14. (Twice amended) The cryptographic communication system according to claim 13, wherein said programmed processor selectively rearranges the key data values in said second readable storage area.

15. (Amended) A method of generating cryptographic keys using a pseudo-random number generator, a first computer readable storage area, and a second computer readable storage area, said method comprising the steps of:

inputting into said pseudo-random number generator an initial data value;

generating a pseudo-random numerical value;

generating a first data string by using said generated pseudo-random numerical value to look up a unique memory address in the first computer readable storage area and retrieving a data value associated with the unique memory address in the first compute readable storage area, said data value being one of a plurality of data values stored in the first computer readable storage area; and

generating a second data string by using said first data string to look up a unique memory address in the second computer readable storage area and retrieving a key data value associated with the unique memory address in the second compute readable storage area, said key data value being one of a plurality of key data values stored in the second computer readable storage area,

wherein the retrieved key data value is used to form a cryptographic key.

16. (Twice amended) The method according to claim 15, further comprising the steps of:

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am. + rearranging the order of the plurality of data values stored in the first computer readable storage area; and

rearranging the order of the plurality of key data values stored in the second computer readable storage area

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18. (Twice amended) The method according to claim 15, further comprising the step of initializing said computer readable storage area.
